



Reply under 37 CFR 1.116—Expediated  
Procedure -Technology Center 1762

AF/1700

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Patent Application

Inventors: Sang-Wook Cheong  
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Case No.: 5-1

Serial No.: 09/885,471

Group Art Unit: 1762

Filing Date: June 20, 2001

Examiner: Eric B. Fuller

Title:  $MgB_2$  SUPERCONDUCTORS

ASSISTANT COMMISSIONER OF PATENTS  
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Sir:

REPLY AND REQUEST FOR RECONSIDERATION

UNDER 37 C.F.R. §§ 1.113, 1.116, 1.121

This is a reply to the final Office Action mailed January 29, 2003.

AMENDMENT

IN THE CLAIMS

Rewrite Claim 8 as:

8. (first amended) A process for making a structure, comprising:  
providing a solid body of  $MgB_2$ ;  
ejecting  $MgB_2$  from the body by directing laser light onto the body; and  
growing an  $MgB_2$  layer on a surface of a substrate from a portion of the ejected  
 $MgB_2$ .

Unchanged Claim 9:

9. The process of claim 8, wherein the substrate and  $MgB_2$   
have lattice constants along the surface that match to at least 10 percent.

Unchanged Claim 10:

10. The process of claim 8, further comprising forming the solid body by  
sintering  $MgB_2$ .